

60815pct.ST25
SEQUENCE LISTING

<110> THERAPTOSIS S.A.

<120> METHOD FOR SCREENING MODULATORS OF MITOCHONDRIAL FUCTIONNING AND NEW
MODULATORS OBTAINED

<130> 60815PCT

<140> PCT/EP03/12056

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<160> 57

<170> PatentIn version 3.1

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Ala Thr Leu Ser Ala Leu Leu Ala Ala Leu Arg Arg Ile Gln Arg Ala
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Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Ala Thr Leu Ser Ala
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Leu Leu Ala Ala Leu Arg Arg Ile Gln Arg Ala
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Arg Lys Lys Arg Arg Gln Arg Arg Arg Cys Gly Gly Leu Glu Thr Arg
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Thr Glu Thr Trp Met Ser Ser Glu Gly Ala Trp Lys Gln Ile Gln Lys
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Val Glu Thr Trp Ala Leu Arg His
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Arg Lys Lys Arg Arg Gln Arg Arg Arg Cys Gly Gly Leu Ala Asn Lys
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Lys Gly Ala Trp Leu Asp Ser Thr Lys Ala Thr Arg Tyr Leu Val Lys
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Thr Glu Ser Trp Ile Leu Arg Asn
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Gly Gly Cys Arg Gly Asp Met Phe Gly Cys Gly Gly Leu Leu Phe Ile
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His Phe Arg Ile Gly Ser Arg His Ser Arg Ile Gly
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Arg Ile Glu Ile Trp Ile Leu Arg His
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Arg Ile Ala Ile Trp Ile Leu Arg His
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Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Arg Ile Glu Ile Trp
 1 5 10 15

Ile Leu Arg His
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Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Arg Ile Ala Ile Trp
1 5 10 15

Ile Leu Arg His
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Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Leu Leu Phe Ile
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His Phe Arg Ile Gly Cys Arg His Ser Arg Ile Gly
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Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Leu
1 5 10 15

Leu Phe Ile His Phe Arg Ile Gly Cys Arg His Ser Arg Ile Gly
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Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Lys His
 1 5 10 15

Ala Gln Arg Ile Glu Ile Trp Ile Leu Arg His
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Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Lys His
 1 5 10 15

Ala Gln Arg Ile Glu Thr Trp Ile Leu Arg His
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Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Lys His
 1 5 10 15

Ala Gln Arg Val Glu Ser Trp Ile Leu Arg Asn
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Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Lys Arg
1 5 10 15

Ala Cys Arg Met Glu Thr Trp Ile Leu Arg His
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Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Lys Gln
1 5 10 15

Ile Gln Lys Val Glu Thr Trp Ala Leu Arg His
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Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Arg Gln
1 5 10 15

Val Glu Lys Val Glu Thr Trp Ala Leu Arg His
20 25

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Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Lys His
1 5 10 15

Ala Gln Arg Ile Ala Ile Trp Ile Leu Arg His
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Ala Trp Lys His Ala Gln Arg Ile Ala Ile Trp Ile Leu Arg His
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Gly Gly Cys Arg Gly Asp Met Phe Gly Cys Gly Gly Arg Ile Glu Ile
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Trp Ile Leu Arg His
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Gly Gly Cys Arg Gly Asp Met Phe Gly Cys Gly Gly Arg Ile Ala Ile
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Trp Ile Leu Arg His
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Gly Gly Cys Gly Arg Gly Asp Ser Pro Gly Cys Gly Gly Arg Ile Glu
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Ile Trp Ile Leu Arg His
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Gly Gly Cys Gly Arg Gly Asp Ser Pro Gly Cys Gly Gly Arg Ile Ala
1 5 10 15

Ile Trp Ile Leu Arg His
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Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Arg Ile Glu Ile
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Trp Ile Leu Arg His
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<400> 25

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Arg Ile Ala Ile
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Trp Ile Leu Arg His
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<400> 26

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Arg
 1 5 10 15

Ile Glu Ile Trp Ile Leu Arg His
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<210> 27
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<400> 27

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Arg
 1 5 10 15

Ile Ala Ile Trp Ile Leu Arg His
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<210> 28

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<213> Artificial

<400> 28

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Gly
 1 5 10 15

Ala Trp Lys His Ala Gln Arg Ile Glu Ile Trp Ile Leu Arg His
 20 25 30

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<213> Artificial

<400> 29

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Gly
 1 5 10 15

Ala Trp Lys His Ala Gln Arg Ile Ala Ile Trp Ile Leu Arg His
 20 25 30

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Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Leu Leu Phe Ile
 1 5 10 15

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His Phe Lys Ile Gly Cys Lys His Ser Lys Ile Gly
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<400> 31

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Leu
1 5 10 15

Leu Phe Ile His Phe Lys Ile Gly Cys Lys His Ser Lys Ile Gly
20 25 30

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<400> 32

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Leu Leu Phe Ile
1 5 10 15

His Phe Arg Ile Gly Ser Arg His Ser Arg Ile Gly
20 25

<210> 33

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<400> 33

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Leu
1 5 10 15

Leu Phe Ile His Phe Arg Ile Gly Ser Arg His Ser Arg Ile Gly
20 25 30

<210> 34

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<400> 34

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Leu Leu Phe Ile
 1 5 10 15

His Phe Lys Ile Gly Ser Lys His Ser Lys Ile Gly
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<400> 35

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Leu
 1 5 10 15

Leu Phe Ile His Phe Lys Ile Gly Ser Lys His Ser Lys Ile Gly
 20 25 30

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Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Lys His
 1 5 10 15

Ala Gln Arg Ile Glu Ile Trp Ile Leu Arg His
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Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Lys His
1 5 10 15

Ala Gln Arg Ile Glu Thr Trp Ile Leu Arg His
20 25

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<400> 38

Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Lys His
1 5 10 15

Ala Gln Arg Val Glu Ser Trp Ile Leu Arg Asn
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<400> 39

Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Lys Arg
1 5 10 15

Ala Cys Arg Met Glu Thr Trp Ile Leu Arg His
20 25

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<400> 40

Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Lys Gln
1 5 10 15

Ile Gln Lys Val Glu Thr Trp Ala Leu Arg His
20 25

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<400> 41

Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Arg Gln
 1 5 10 15

Val Glu Lys Val Glu Thr Trp Ala Leu Arg His
 20 25

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<400> 42

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Arg Ile Glu Ile
 1 5 10 15

Trp Ile Leu Arg His
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<210> 43

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<400> 43

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Arg Ile Ala Ile
 1 5 10 15

Trp Ile Leu Arg His
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<400> 44

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Arg
 1 5 10 15

Ile Glu Ile Trp Ile Leu Arg His
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<400> 45

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Arg
 1 5 10 15

Ile Ala Ile Trp Ile Leu Arg His
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<213> Artificial

<400> 46

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Gly
 1 5 10 15

Ala Trp Lys His Ala Gln Arg Ile Glu Ile Trp Ile Leu Arg His
 20 25 30

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<400> 47

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Gly
 1 5 10 15

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Ala Trp Lys His Ala Gln Arg Ile Ala Ile Trp Ile Leu Arg His
20 25 30

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Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Leu Leu Phe Ile
1 5 10 15

His Phe Lys Ile Gly Cys Lys His Ser Lys Ile Gly
20 25

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<400> 49

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Leu
1 5 10 15

Leu Phe Ile His Phe Lys Ile Gly Cys Lys His Ser Lys Ile Gly
20 25 30

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<400> 50

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Leu Leu Phe Ile
1 5 10 15

His Phe Arg Ile Gly Ser Arg His Ser Arg Ile Gly
20 25

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<400> 51

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Leu
 1 5 10 15

Leu Phe Ile His Phe Arg Ile Gly Ser Arg His Ser Arg Ile Gly
 20 25 30

<210> 52

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<213> Artificial

<400> 52

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Leu Leu Phe Ile
 1 5 10 15

His Phe Lys Ile Gly Ser Lys His Ser Lys Ile Gly
 20 25

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<400> 53

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Leu
 1 5 10 15

Leu Phe Ile His Phe Lys Ile Gly Ser Lys His Ser Lys Ile Gly
 20 25 30

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Trp	Ile	Leu	Arg	His
			20	

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<400> 55

Gly	Gly	Cys	Arg	Gly	Asp	Met	Phe	Gly	Cys	Gly	Gly	Arg	Ile	Ala	Ile
1				5					10					15	

Trp	Ile	Leu	Arg	His
			20	

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Gly Gly Cys Gly Arg Gly Asp Ser Pro Gly Cys Gly Gly Arg Ile Glu
 1 5 10 15

Ile Trp Ile Leu Arg His
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<223>

<400> 57

Gly Gly Cys Gly Arg Gly Asp Ser Pro Gly Cys Gly Gly Arg Ile Ala
 1 5 10 15

Ile Trp Ile Leu Arg His
 20